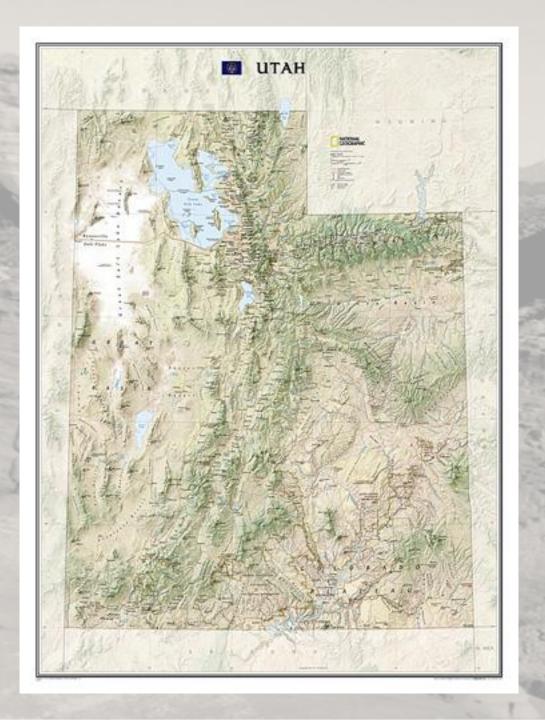


Abundant Natural Resources

- Crude Oil
- Coal
- Natural Gas
- Water supply
- Solar Zones
- Wind Farms
- Geothermal Resources



















































































































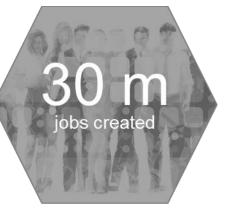




18% of final energy demand

6 Gt
annual CO₂
abatement

\$2.5 t
annual sales
(hydrogen and equipment)



CEO-led partnership adds six new members demonstrating increased support for hydrogen technologies

Brussels, 18 June 2019 – The Hydrogen Council today announced that six new member companies have joined the group. These include BP as a steering member and AVL, ITOCHU Corporation, The Liebherr Group, Power Assets Holdings Limited, and SinoHytec as supporting members. The continued growth of the Council – a global CEO-led initiative for hydrogen technologies – is in direct response to the acknowledgement that hydrogen can play an important role in decarbonising the global economy.

This group of new members brings the Council to **60 total companies, collectively representing more than €2.6 trillion in revenue and 4.2 million jobs around the world.** The coalition has more than quadrupled since its launch in 2017 with 13 founding members. Covering all key geographies and sectors, the Council uses its global reach to provide guidance on scaling hydrogen use around the world.

"The global hydrogen industry is stronger than ever. Businesses are betting on hydrogen, investing in multi-billion-dollar projects and developing new products. Hydrogen Council members are leading this effort and working to increase cooperation between industry, government, and investors," said **Euisun Chung, Executive Vice Chairman of Hyundai Motor Group and Co-Chair of the Hydrogen Council.** "I welcome our newest members and look forward to working together to build the hydrogen economy."

YDROGEN - SCALING UP

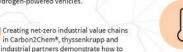
OR CLEAN AIR, ENERGY **CURITY & JOBS**

VELOPING A REGULATORY AMEWORK & FUNDING SCHEMES ROUGH INTERNATIONAL ILTILATERAL COLLABORATION

E WORLD IS MOVING...







in Carbon2Chem®, thyssenkrupp and other industrial partners demonstrate how to convert carbon-rich offgases of a steel plant to green chemical products by using electrolysis and chemical synthesis technologies.

> The industry needs a clear and stable put in place give a signal to investors to get involved, boosting economic growth and

Help unlock hydrogen's potential and harness the benefits of the next big thing in clean energy. The industry has developed a concrete roadmap to show how to get there. Read it and join the

HAT ROLE CAN YOU PLAY?

makers are at the center of ansition. You hold the power onentially scale up hydrogen ons and deliver benefits to your ns - clean air, energy security, cost and new jobs.

regulatory environment and a level playing field for all technologies. The measures you competitiveness as a result.

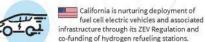
hydrogen revolution!

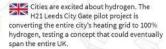
HAT COULD HYDROGEN DO FOR YOU?

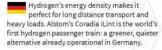
A HIGH. BECAUSE THE HYDROGEN FUTURE HERE, AND IT IS READY TO SCALE UP.

Hydrogen Council

WHY HYDROGEN?







GET IN TOUCH!



secretariat@hydrogencouncil.com

HYDROGEN - SCALING UP

THROUGH STRONG **PARTNERSHIPS**

WORKING TOGETHER WITH GLOBAL STAKEHOLDERS

WHAT CAN WE DO ABOUT IT?

NOW is the time for global stakeholders to come together and create an environment that will scale up hydrogen solutions by:

- Speaking one voice to inform stakeholders and educate consumers
- Creating platforms for public-private collaboration
- Sharing know how and resources
- Fostering standardization
- Highlighting market activation and real business cases and how to make them happen

MULTI-STAKEHOLDER GROUPS play a fundamental role in bringing public and private players to the same table, creating strong partnerships to unlock potential and drive mass deployment.

WHAT CAN YOU DO?

Hydrogen Council

WHAT WE KNOW

- Hydrogen technologies are here mature, safe and ready to be deployed at scale.

TOWARDS A GLOBAL ECOSYSTEM

A rich international ecosystem already exists, and - encouraged by industry's decisive actions - many new players are coming on board to explore how hydrogen can deliver on their needs.

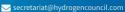


WHAT COULD HYDROGEN DO FOR YOU?

AIM HIGH. BECAUSE THE HYDROGEN FUTURE IS HERE, AND IT IS READY TO SCALE UP.

GET IN TOUCH!





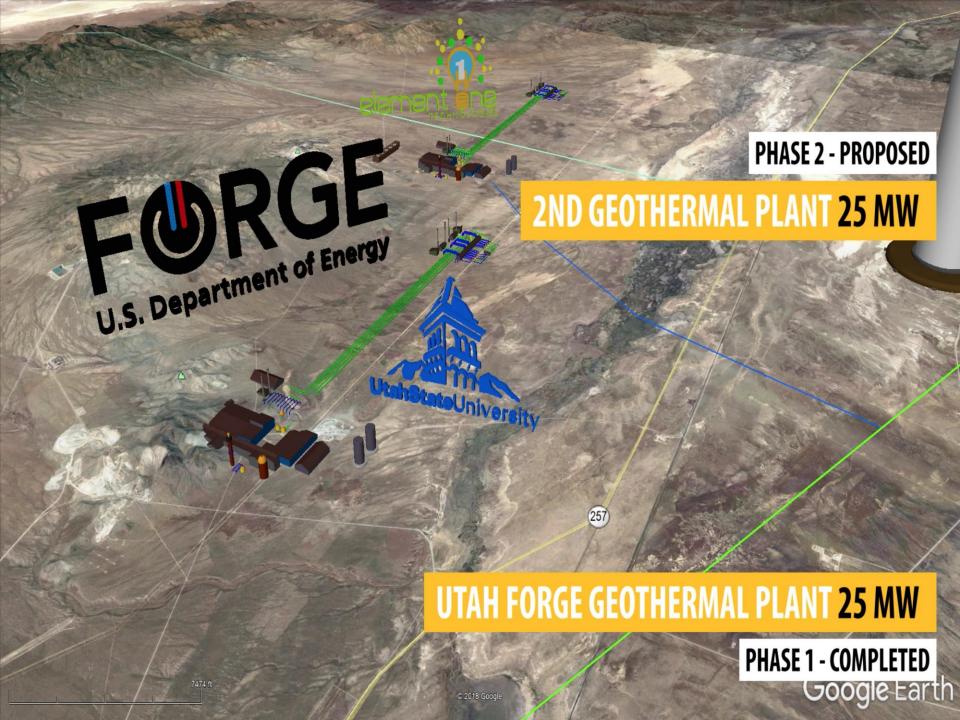


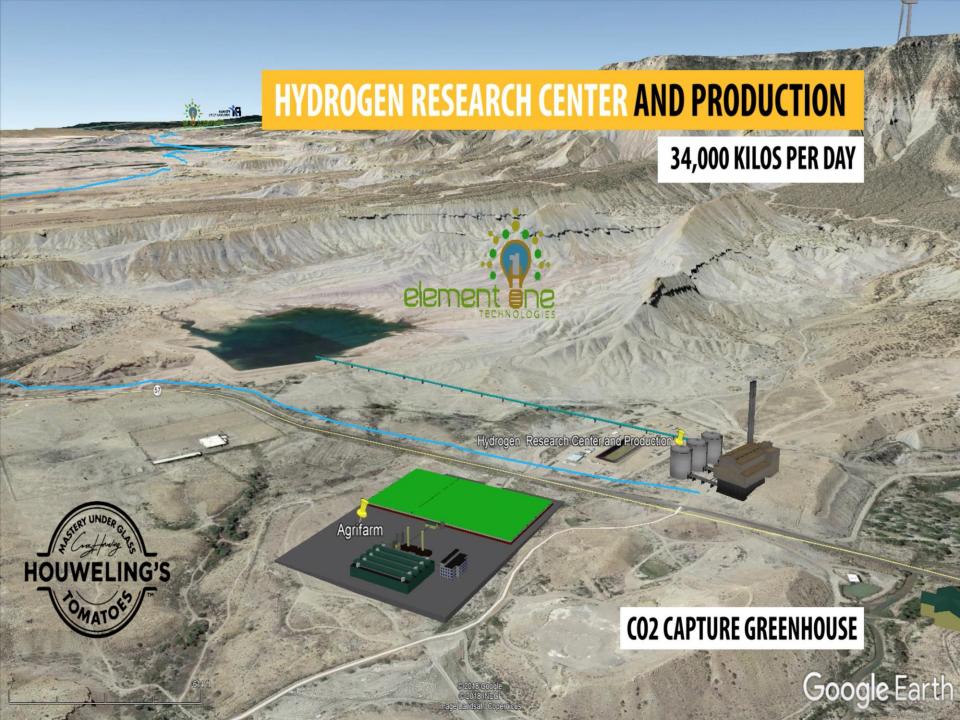
The Hunter and Huntington Power Plants

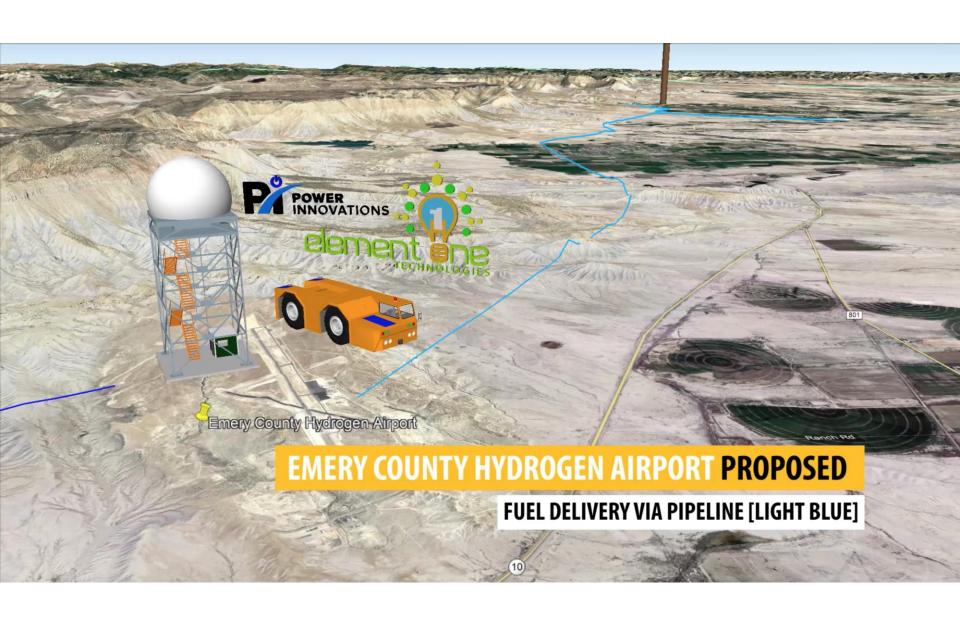


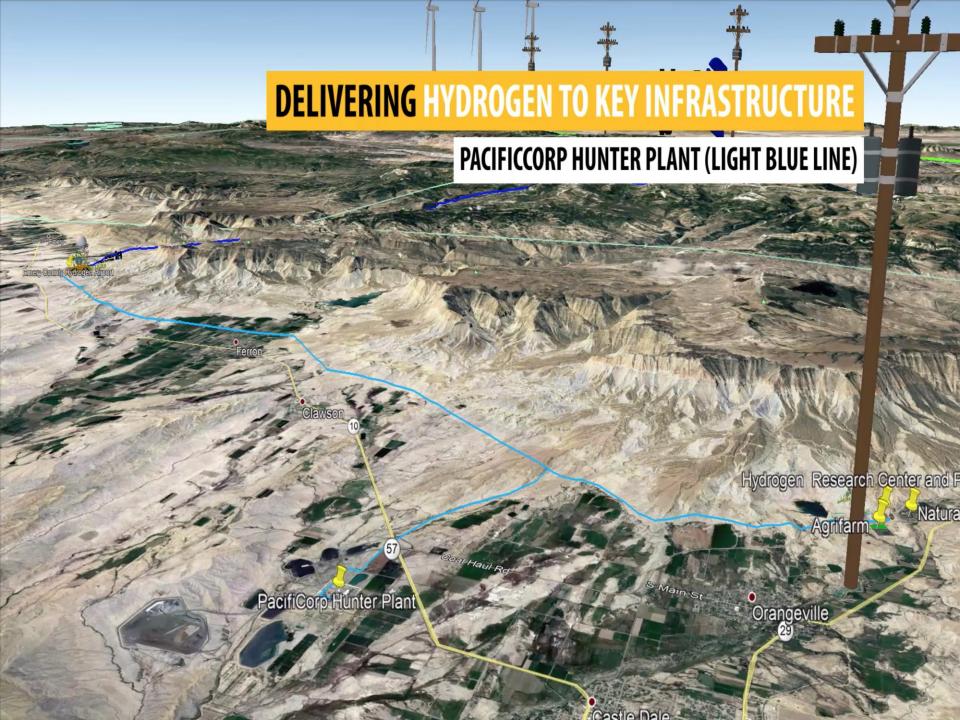


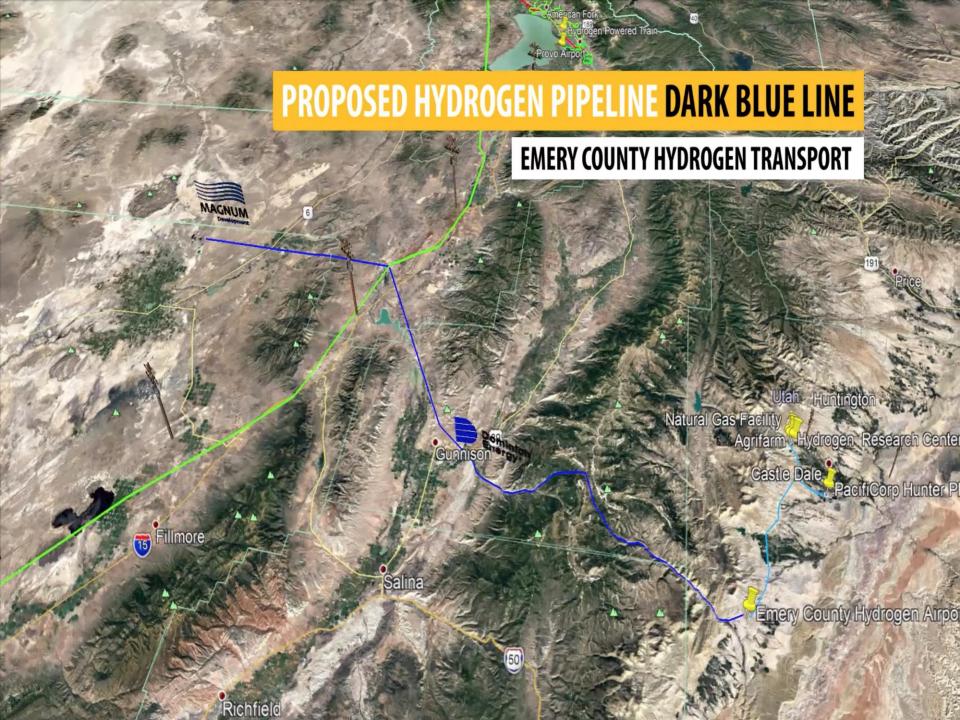
- 4,000,000 tons of coal per year consumed over the past 40 years
- 40 X 4,000,000 = 160.000,000 tons
- 160,000,000 X .05 = 8,000,000 tons of Hydrogen
- 8,000,000 X 907 = 7,256,000,000 kilos of hydrogen inherent in that same coal
- Hydrogen is selling for \$16.49 per kilo in the State of CA
- 7,256,000,000 X \$10 = \$72,560,000,000/40 = \$1,814,000,000 of Hydrogen in coal per year



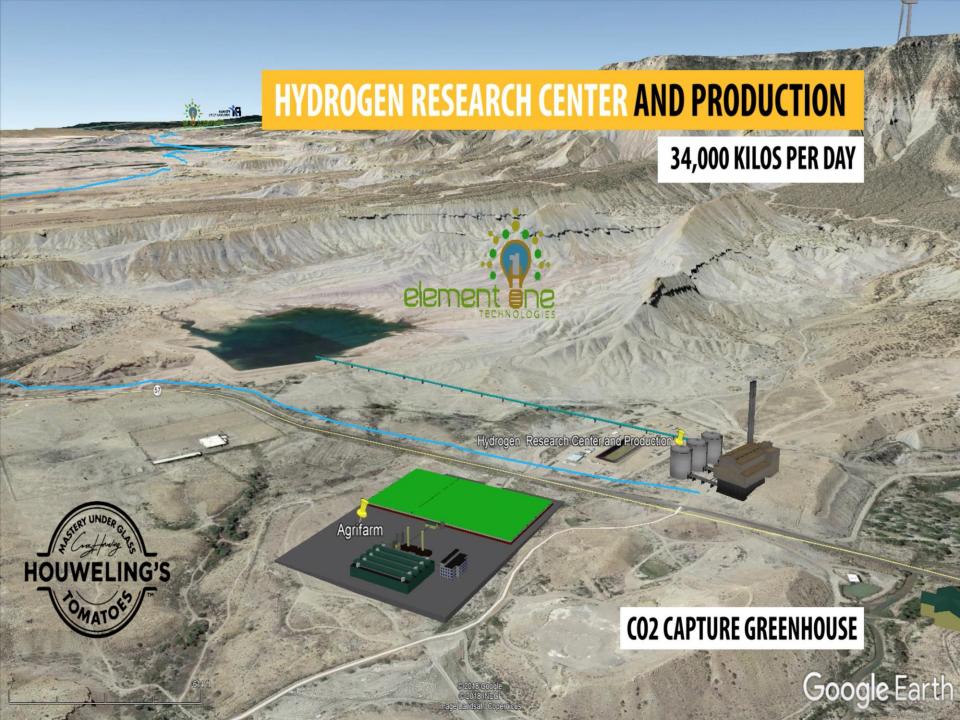




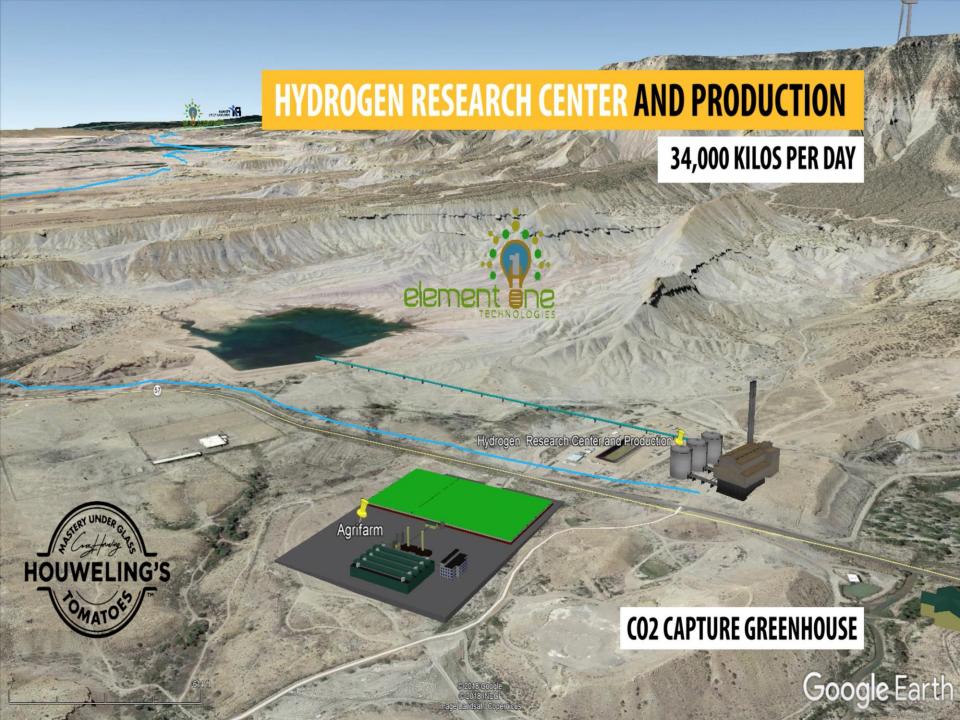


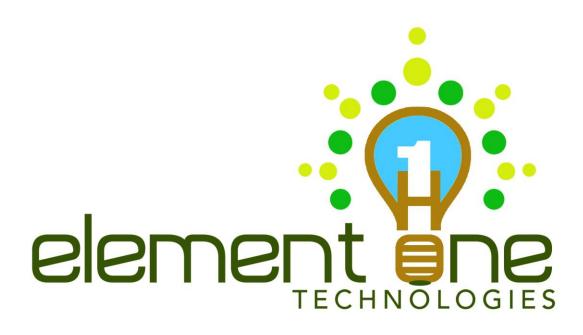












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